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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/018,006	03/28/2002	Alexander Pilger	1454.1124	7148	
21171 7590 10/05/2007 STAAS & HALSEY LLP			EXAMINER		
SUITE 700			AVELLINO, JOSEPH E		
1201 NEW YO WASHINGTO	ORK AVENUE, N.W. ON, DC 20005		ART UNIT	PAPER NUMBER	
	•		2143		
			MAIL DATE	DELIVERY MODE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Office Action Summary		Application	n No.	Applicant(s)			
		10/018,006	³ \	PILGER ET AL.			
		Examiner		Art Unit			
		Joseph E.	Avellino	2143			
The Period for Rep	MAILING DATE of this communication a ly	appears on the	cover sheet with the	correspondence address			
THE MAILIN - Extensions of after SIX (6) N - If the period fc - If NO period fc - Failure to repl Any reply rece	NED STATUTORY PERIOD FOR REF NG DATE OF THIS COMMUNICATION time may be available under the provisions of 37 CFR IONTHS from the mailing date of this communication, or reply specified above is less than thirty (30) days, a re- tor reply is specified above, the maximum statutory perion by within the set or extended period for reply will, by state sived by the Office later than three months after the may term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no ever reply within the statut od will apply and will tute, cause the applic	nt, however, may a reply be tin ory minimum of thirty (30) day expire SIX (6) MONTHS from cation to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).			
Status							
1)⊠ Resp	onsive to communication(s) filed on 06	September 20	007.				
	This action is FINAL . 2b) This action is non-final.						
3)☐ Since	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of	Claims						
4)⊠ Claim	Claim(s) <u>7-11,13-16 and 18</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim	Claim(s) is/are allowed.						
6)⊠ Claim	Claim(s) <u>7-11,13-16 and 18</u> is/are rejected.						
7)∐ Claim	Claim(s) is/are objected to.						
8)∐ Claim	Claim(s) are subject to restriction and/or election requirement.						
Application Pa	pers						
9)∏ The sp	ecification is objected to by the Exami	iner.					
10) <u></u> The dr	awing(s) filed on is/are: a) a	ccepted or b)	objected to by the	Examiner.			
Applic	ant may not request that any objection to the	he drawing(s) be	held in abeyance. Se	e 37 CFR 1.85(a).			
Replac	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oa	th or declaration is objected to by the	Examiner. Not	e the attached Office	Action or form PTO-152.			
Priority under	35 U.S.C. § 119						
a)⊠ All 1.⊟ 2.⊟	wledgment is made of a claim for foreign b) Some * c) None of: Certified copies of the priority docume Certified copies of the priority docume Copies of the certified copies of the pr	ents have been ents have been riority documer	received. received in Applications have been received.	ion No			
* Caa 4ha	application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
" See the	attached detailed Office action for a li	ist of the certifi	ea copies not receive	: 0.			
Attachment(s)							
	erences Cited (PTO-892)		4) Interview Summary				
	ftsperson's Patent Drawing Review (PTO-948) isclosure Statement(s) (PTO-1449 or PTO/SB/0 Mail Date		Paper No(s)/Mail D Notice of Informal F Other:	ate Patent Application (PTO-152)			

DETAILED ACTION

1. Claims 7-11, and 13-16 are presented for examination; claim 7 independent.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on February 20, 2007 has been entered.

Claim Rejections - 35 USC § 102

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 7-11, 13-15, are rejected under 35 U.S.C. 102(e) as being anticipated by Fijolek et al. (USPN 6,223,222) (hereinafter Fijolek).

4. Referring to claim 7, Fijolek discloses a communication system utilizing a network (Figure 1), comprising:

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a user computer (i.e. CPE 18) connected to the network 14 (Figure 1) including an access unit (i.e. Cable Modem 16) which determines predetermined QoS features for interaction with the network (i.e. requests a particular QoS, and performs the communication at the acquired QoS) (e.g. abstract; Figure 18; col. 29, line 55 to col. 30, line 7); and

a service provider computer (i.e. QoS Server 332) connected to the network 14 (Figure 1), providing the predetermined QoS featuers to said access unit, to enable the QoS features of the access unit (i.e. provide a QoS identifier to the cable modem to perform communications at the requested CoS and rate) prior to the utilizing of the QoS features by said access unit (i.e. the QoS server gives the identifier to the CM 16 which then uses the permitted QoS on the data network 28(Figures 18, 19, and 27; col. 29, line 55 to col. 30, line 7; col. 36, lines 44-61); and

a database, connected to the service provider computer, to determine which of the predetermined QoS features (i.e. identifiers) are currently permissible for the user computer (i.e. what identifiers are currently used for each indication of CoS, QoS and other related parameters requested by the modem (col. 29, line 55 to col. 30, line 5).

- 5. Referring to claim 8, Fijolek discloses the network is the Internet (i.e. data net 28) (Figure 1).
- 6. Referring to claim 9, Fijolek discloses the access unit is an autonomous device (i.e. a cable modern is considered an autonomous device) (Figure 1, col. 6, lines 30-35).

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- 7. Referring to claim 10, Fijolek discloses the access unit is a plug-in device for the first computer (the Office takes the term "plug-in device" to be broadly construed as "a device which can be physically or logically connected to a computer" such as the cable modem can be "plugged into" the CPE 20 via an Ethernet cable) (Figure 1).
- 8. Referring to claim 11, Fijolek discloses the access unit is a processor of the first computer programmed to determine predetermined QoS features for interaction with the network (i.e. since the interface device acts on behalf of the first computer, it can be considered that the interface access device processor is a processor of the first computer since without the interface, the first computer would be unable to access the network (col. 29, line 55 to col. 30, line 5).
- 9. Referring to claim 13, Fijolek discloses the QoS computer is assigned to an ISP (i.e. data over cable system 330 is part of the ISP network) (col. 29, line 55 to col. 30, line 5).
- 10. Referring to claim 14, Fijolek discloses the QoS features are called up dynamically in the access unit (the Office takes the term "called up" as created) (col. 5, lines 56-67).

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- 11. Referring to claim 15, Fijolek discloses the access unit (i.e. cable modem) converts from a first protocol (i.e. Ethernet connecting the cable modem with the CPE 20) to a second protocol (i.e. the protocol used to transfer data over a cable network, commonly known as DOCSIS) (col. 6, lines 30-35).
- 12. Claim 18 is rejected for similar reasons as stated above. Furthermore Fijolek discloses that the QoS features for a user are stored, and determined in advance of the user connecting to the network (i.e. Tables 10-25 describe the features of the quality of service classes for which a user can access a network; these features are determined before the user is connected).

Claim Rejections - 35 USC § 103

13. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fijolek in view of Loukianov (USPN 6,249,526).

14. Fijolek discloses the invention substantively as described in claim 7. Fijolek inherently requires that the access unit is incapable of operation without additional components (i.e. a power cord to provide power to the modem, as well as data cables to connect various components to the modem). Fijolek does not specifically state that the

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cable modem is an integral component to the user computer. In analogous art,
Loukianov discloses another communications system utilizing a network (Figure 1, ref.
100) which discloses a cable modem as an integral component to the user computer
(i.e. "the cable modem unit 300 is in the PCI form factor such as one of the peripheral
devices"; a device in the PCI form factor cannot operate without being connected to the
client computer, which delivers power and timing configurations, which satisfies the
definition of being an "integral" component to the client computer) (Figure 3; col. 4, lines
8-14). It would have been obvious to one of ordinary skill in the art to combine the
teaching of Fijolek with Loukianov in order to help the cable modem of Fijolek perform
time-critical tasks without an on-board processor and accommodate the changing
specifications in the protocol without modification to the hardware as supported by
Loukianov (col. 1, lines 43-48).

Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Fijolek in view of Vaid et al. (USPN 6,137,777) (hereinafter Vaid).

15. Fijolek discloses the invention as described in claim 1. Fijolek does not expressly disclose that the QoS features are stored in advance of a user connection to a network. In analogous art, Vaid discloses a firewall device which discloses associating a specific quality of service features with a user (i.e. defining a traffic class based on the source/destination address of a user, and then providing a traffic policy; all of which is preassigned before a user initiates a data transfer) (col. 12, line 53 to col. 13,

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line 55). It would have been obvious to one of ordinary skill in the art to combine the traffic classes of Vaid with the QoS server of Fijolek in order to differentiate various quality of services based on the type of traffic being transported, thereby providing a more efficient method of bandwidth management.

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Response to Arguments

- 16. Applicant's arguments filed September 6, 2007 have been fully considered but they are not persuasive.
- In the remarks, Applicant argues, in substance, that (1) Fijolek does not disclose 17. a database to determine the quality of service features, and (2) Fijolek does not disclose a database which stores in advance features for a user.
- 18. As to point (1), Applicant is incorrect. Applicant is directed to review Fijolek, specifically col. 36, which shows TABLE 23, which describes a plurality of QoS identifiers and to which class of service each identifier belongs. This clearly meets the claimed database. By this rationale, the rejection is maintained.
- Applicant's other arguments are rendered moot in view of the new grounds of *19.* rejection presented above.

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Conclusion

- 20. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 21. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph E. Avellino whose telephone number is (571) 272-3905. The examiner can normally be reached on Monday-Friday 7:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Wiley can be reached on (571) 272-3923. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Joseph E. Avellino, Examiner

September 14, 2007